

ALFONIC 1012-3 Ethoxylate



SASOL

Technical Data Sheet

Description

Sasol Chemicals ALFONIC 1012-3 Ethoxylate is a biodegradable nonionic derived from linear primary ALFOL1012 Alcohol. ALFONIC 1012-3 Ethoxylate is liquid at room temperature, essentially 100% active and has the following structural formula: $\text{CH}_3(\text{CH}_2)_x(\text{OCH}_2\text{CH}_2)_3\text{OH}$ where 'x' varies between 9 and 11.

Applications

ALFONIC 1012-3 Ethoxylate may be used in a wide array of applications including industrial and institutional cleaning, textile processing, oilfield and agricultural chemicals. Additionally, ALFONIC 1012-3 Ethoxylate may be sulfated and used as a foaming agent for wallboard/sheetrock for commercial and residential construction.

Properties

Typical physical properties are listed in the table to the right. Actual properties will vary from lot to lot.

Contact information

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Typical properties	ALFONIC 1012-3
Avg. molecular weight, g/mol	296
Avg. EO content, wt. %	45
Free EO, ppm	1 max.
Hydroxyl number, mg KOH/g	182 – 192
Water, wt. %	0.1 max.
Glycol, wt. %	2 max.
Free alcohol, wt. %	14 max.
Density, g/mL @ 40°C / 104°F	0.925
Flash point, °C (°F)	> 125 (257)
Cloud point, 10% in BDG, °C (°F)	59 (138)
Pour Point, °C (°F)	-10 (14)
Viscosity, cSt @ 40°C / 104°F	12.5
pH, 5% in IPA/water	6 – 8
Color, APHA, mg Pt/L	50 max.
HLB, calculated	9
Wettability on cotton, seconds	26
Critical Micelle Concentration, mg/L	58.5
SFT, mN/m	26.1
Average Contact Angle on PTFE	38.6
Solubility in water, 2 wt. %	Insoluble

**Mix samples well before use.*

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